FATENT COOPERATION TREATMENT

	From t	he INTERNATIONAL I	BUREAU	
PCT	To:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 25 August 2000 (25.08.00)	The 5299 Cind	REED, T., David The Procter & Gamble Company 5299 Spring Grove Avenue Cincinnati, OH 45217-1087 ETATS-UNIS D'AMERIQUE		
Applicant's or agent's file reference 7341/VB		IMPORTANT NOT	TIFICATION	
International application No. PCT/US99/27201	1	onal filing date (day/month/ November 1999 (16.11	•	
The following indications appeared on record concerning: X the applicant X the inventor	the age	nt the comm	non representative	
Name and Address KASTURI, Chandrika		State of Nationality US	State of Residence US	
10444 Cliffwood Court Cincinnati, OH 45241 United States of America		Telephone No.		
		Facsimile No.		
		Teleprinter No.		
The International Bureau hereby notifies the applicant that the the person the name X the additional the person the name X the additional the person the name X the additional the person the person the name X the person the per	r	change has been recorded the nationality	concerning: the residence	
Name and Address KASTURI, Chandrika		State of Nationality US	State of Residence US	
10044 Cliffwood Court Cincinnati, OH 45241 United States of America		Telephone No.		
		Facsimile No.		
		Teleprinter No.		
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:				
X the receiving Office	[the designated Offices	concerned	
the International Searching Authority X the International Preliminary Examining Authority		X the elected Offices cor	ncerned	
The international resimilary Examining Authority		other:		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized	officer Marie-José I	Devillard	
Facsimile No.: (41-22) 740.14.35	Telephone	No.: (41-22) 338.83.38		

Form PCT/IB/306 (March 1994)



WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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A3

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60/108,629

16 November 1998 (16.11.98) US

(71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): MCKENZIE, Kristen, Lynne [US/US]; 5365 Harvestdale Drive, Mason, OH 45040 (US). SCHEPER, William, Michael [US/US]; 2393 Picnic Woods Drive, Lawrenceburg, IN 47025 (US). THOEN, Christiaan, Arthur, Jacques, Kamiel [BE/US]; 8485 Rupp Farm Drive, West Chester, OH 45069 (US). KASTURI, Chandrika [US/US]; 10444 Cliffwood Court, Cincinnati, OH 45241 (US).
- (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

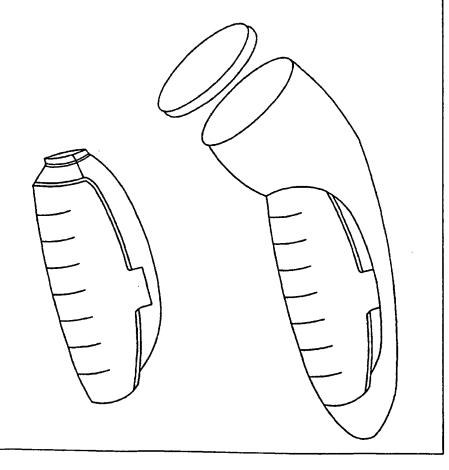
With international search report.

(88) Date of publication of the international search report: 21 September 2000 (21.09.00)

(54) Title: ULTRASONIC CLEANING DEVICE

(57) Abstract

The present invention relates to a hand held ultrasonic cleaning device comprising a housing, said housing comprising a griping means; a cleaning head adapted to rest on and be moved over surface to be cleaned, wherein said cleaning head is adapted to be removably mounted to said housing and the minimum surface area of said cleaning head to rest on said surface is greater than 6.25 cm squared; A transducer means mounted in said housing for oscilating said cleaning head at an ultrasonic frequency; and a power for supplying direct current to said transducer means, wherein said power supply means is associated with said device. Further disclosed is a method of removing tough food soil from a hard surface comprising the steps of: (i) contacting said soil with a cleaning composition; (ii) contacting said soil with said cleaning head of said ultrasonic cleaning device; (iii) rinsing said hard surface with an aqueous solution. Further the invention relates to an ultrasonic cleaning product comprising: (a) a cleaning composition comprising a cleaning agent; and (b) the hand held ultrasonic cleaning device.



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Inter nai Application No PCT/US 99/27201

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A47L17/04 A47L15/13 B08B3/12 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 A47L B08B Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,A WO 99 42553 A (PROCTER & GAMBLE ET AL) 1-32 26 August 1999 (1999-08-26) abstract page 5, line 24 -page 6, line 10 figure Α FR 1 102 562 A (ATELIERS DE CONSTRUCTIONS 1.10 ÉLECTRIQUES DE CHARLEROI) 24 October 1955 (1955-10-24) the whole document X 31,32 A PATENT ABSTRACTS OF JAPAN 1,10,24, vol. 1999, no. 05, 26,27, 31 May 1999 (1999-05-31) 31,32 -& JP 11 047061 A (SHARP CORP), 23 February 1999 (1999-02-23) abstract Further documents are listed in the continuation of box C. l X I X Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person edited in the continuous contin *O* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but inter than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 17 May 2000 29/05/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Cabral Matos, A

Form PCT/ISA/210 (second sheet) (July 1992)

inten nai Application No PCT/US 99/27201

PCT/US 99/27201						
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	US 5 450 646 A (MCHUGH H M ET AL) 19 September 1995 (1995-09-19) abstract; figure 1	1,10,24, 26,27				
A	EP 0 128 277 A (LEX F) 19 December 1984 (1984-12-19) abstract page 4, line 29 - line 33 figures	1,10,24, 26,27				
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A	US 5 770 801 A (DRAYER L R ET AL) 23 June 1998 (1998-06-23) cited in the application abstract; figure 15					
A	US 5 247 716 A (BOCK R T) 28 September 1993 (1993-09-28) cited in the application abstract; figure 1					
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information on patent family members

Interv nal Application No PCT/US 99/27201

				1700 33727201
Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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PATENT COOPERATION TREATY

REC'D 27 DEC 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant'	s or aq	ent's file reference	T		
7341/VB			FOR FURTHER ACTION	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41)	
International application No.		lication No.	International filing date (day/	month/year)	Priority date (day/month/year)
PCT/US	99/27	7201	16/11/1999		16/11/1998
A47L17		ent Classification (IPC) or na	tional classification and IPC		
Applicant					
THE PR	OCT	ER & GAMBLE COMPA	ANY et al.		
1. This and i	intern s tran	ational preliminary exami smitted to the applicant a	nation report has been prep ccording to Article 36.	pared by this Int	ternational Preliminary Examining Authority
2. This	REPO	ORT consists of a total of	4 sheets, including this cov	ver sheet.	
ļ t	peen a	mended and are the bas	I by ANNEXES, i.e. sheets is for this report and/or she 7 of the Administrative Inst	ets containing r	on, claims and/or drawings which have ectifications made before this Authority the PCT).
Thes	e ann	exes consist of a total of	sheets		
			sneets.		
		· · · · · · · · · · · · · · · · · · ·			
3. This	report	contains indications relat	ing to the following items:		
1	\boxtimes	Basis of the report			
II		Priority			
111		Non-establishment of op	pinion with regard to novelty	, inventive step	and industrial applicability
IV		Lack of unity of invention			,
V		Reasoned statement uncitations and explanation	der Article 35(2) with regard as suporting such statemer	d to novelty, inv t	entive step or industrial applicability;
VI		Certain documents cited	t		+
VII		Certain defects in the int	ernational application		
VIII	\boxtimes	Certain observations on	the international application	า	
Date of sub	Date of submission of the demand			Date of completion of this report	
18/05/20	18/05/2000				
Name and preliminary	nailing examir	address of the international ning authority:	Auti	norized officer	STOP ISOMES MICHIGAN
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Paj	oadimitriou, S	The state of the s
	Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399 2760				



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

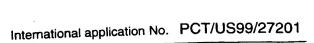
International application No. PCT/US99/27201

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1	 This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages: 								
	1-7	74	as originally filed						
	Cla	aims, No.:							
	1-3	32	as originally filed						
	Dra	awings, sheets:							
	1/4	-4/4	as originally filed						
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		□ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
		_							
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	Witi	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the int	ernational application in written form.						
		☐ filed together with the international application in computer readable form.							
		☐ furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.						
4.	The	The amendments have resulted in the cancellation of:							
		the description,	pages:						
		the claims,	Nos.:						



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**



_		the drawings,	established as if (some of) the amendments had not been made, since they have been made, sin the since they have been made, since they have been made, since
5. E	the second the discussion as like the time to the second	yond the disclosure as filed (Rule 70.2(c)): neet containing such amendments must be referred to under item 1 and annexed to this	
6.	Add	ditional observations,	if necessary:

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

International application No. PCT/US99/27201

R It m VIII

C rtain observations on the international application

1) <u>Independent claims 1,10,26,27,31,32</u>

Although these claims have been drafted as separate independent apparatus claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Hence, these claims do not meet the requirements of Article 6 PCT.